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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/855,312	05/14/2001	Thomas A. Kodenkandath	05770-156001 / AMSC-554	8789
26161	7590	03/23/2004	EXAMINER	
FISH & RICHARDSON PC 225 FRANKLIN ST BOSTON, MA 02110			BRUNSMAN, DAVID M	
			ART UNIT	PAPER NUMBER
			1755	

DATE MAILED: 03/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/855,312	<b>Applicant(s)</b> KODENKANDATH ET AL.	
	<b>Examiner</b> David M Brunzman	<b>Art Unit</b> 1755	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 45-50, 59-62, 64, 65, 85, 87 and 89-96 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 45-50, 59-62, 64, 65, 85, 87 and 89-96 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some    \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01 March 2004 has been entered.

Claims 45-50, 59-62, 64, 65, 85, 87 and 89-96 are pending, claim 63 having been previously cancelled.

Applicant is advised that should claim 64 be found allowable, claim 87 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 45, 46, 47, 85 and 90-95 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5071833.

The reference teaches a precursor composition for forming yttrium barium copper oxide superconductors comprising yttrium acetate, barium trifluoroacetate and copper propionate. See column 9, line 7 through column 15, line 2; and examples I-IV. The instant claims are to a composition in the form of a solution. The prior art teaches preferred solvents therein include materials such as THF and lower alcohols (see column 17). The instant specification discloses preferred embodiments of the solvents assumed to form

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solutions exhibiting the recited properties of the solutions formed including materials such as THF and lower alcohols (page 3, line 17). It is clear that the prior art discloses compositions in the form of solutions comprising similar precursors and similar solvents to those of the instant invention. The properties recited in the instant claims would necessarily exhibit these same properties as the properties of a composition are inseparable from the composition. In the alternative, critical disclosure of limitations necessary to exhibit the recited properties is missing from the instant claims and specification. The mere failure of a reference to disclose all the advantages asserted by applicant is not a substitute for actual difference in properties. *In re DeBlauwe*, 222 USPQ 191. An apparently old composition cannot be converted into an unobvious one simply by the discovery of a characteristic that one cannot glean from the cited prior art. *Titanium Metals Corporation v. Banner*, 227 USPQ 773.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 48, 49, 50, 59-62, 64, 65, 87, 89 and 96 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5071833 as applied above, and further in view of US Patent 5304533.

The difference between US 5071833 and the instant claims is the addition of a Lewis Base such as an amine or ammonia to the composition. US 5304533 teaches that a base such as an amine or ammonia (See claim 6) may be added to metallorganic precursor compositions for forming yttrium barium copper oxide superconductors in order to promote hydrolysis. It would have been obvious to one of ordinary skill in the art to add a base,

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such as ammonia, to the composition of 5071833 because the prior art teaches hydrolysis would be promoted. Applicants' previous response included the simple statement that the processes of each reference are different. Applicants' response did not set forth the manner in which the processes differ. Both processes require hydrolysis of the precursors on the way to oxide formation. A compound known to promote hydrolysis of similar precursors in similar solvents would be expected to promote hydrolysis in the process of the primary reference. No evidence has been presented that one of ordinary skill in the art would not expect said amine or ammonia to promote hydrolysis in the process of the primary reference.

It is clear that the prior art discloses compositions in the form of solutions comprising similar precursors and similar solvents to those of the instant invention. The properties recited in the instant claims would necessarily exhibit these same properties as the properties of a composition are inseparable from the composition. In the alternative, critical disclosure of limitations necessary to exhibit the recited properties is missing from the instant claims and specification. For example, page 16, lines 5-13 of the instant specification disclose all of the inventive compositions can produce films having a proportion of defects less than 20% and do not set forth any particular limitations necessary to obtain such a result, a disclosure that must rely upon the composition necessarily exhibiting the same properties. The mere failure of a reference to disclose all the advantages asserted by applicant is not a substitute for actual difference in properties. *In re DeBlauwe*, 222 USPQ 191. An apparently old composition cannot be converted into an unobvious one simply by the discovery of a characteristic that one cannot glean from the cited prior art. *Titanium Metals Corporation v. Banner*, 227 USPQ 773.

Claims 45, 48 and 90-95 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5304533.

The reference teaches precursor compositions comprising a rare earth metal salt, an alkaline earth metal salt, copper carboxylate and a base such as an amine or ammonia. See the claims. The instant claims are to a composition in the form of a solution. The prior art teaches preferred solvents therein include materials such as THF and lower alcohols (see column 5, lines 65-66). The instant specification discloses preferred embodiments of the solvents assumed to form solutions exhibiting the recited properties of the solutions formed including materials such as THF and lower alcohols (page 3, line 17).

It is clear that the prior art discloses compositions in the form of solutions comprising similar precursors and similar solvents to those of the instant invention. The properties recited in the instant claims would necessarily exhibit these same properties as the properties of a composition are inseparable from the composition. In the alternative, critical disclosure of limitations necessary to exhibit the recited properties is missing from the instant claims and specification. The mere failure of a reference to disclose all the advantages asserted by applicant is not a substitute for actual difference in properties. *In re DeBlauwe*, 222 USPQ 191. An apparently old composition cannot be converted into an unobvious one simply by the discovery of a characteristic that one cannot glean from the cited prior art. *Titanium Metals Corporation v. Banner*, 227 USPQ 773.

Claims 59-62, 89 and 96 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 4956340.

The reference teaches a precursor composition comprising a rare earth metal salt, an alkaline earth metal salt, a transition metal salt such as copper propionate and a base such as an amine or ammonia. See column 1, lines 51-59 and example 1. The instant claims are to a composition in the form of a solution. The prior art teaches preferred solvents therein include water (see column 17). The instant specification discloses preferred

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embodiments of the solvents assumed to form solutions exhibiting the recited properties of the solutions formed including water as a solvent (page 3, line 17).

It is clear that the prior art discloses compositions in the form of solutions comprising similar precursors and similar solvents to those of the instant invention. The properties recited in the instant claims would necessarily exhibit these same properties as the properties of a composition are inseparable from the composition. In the alternative, critical disclosure of limitations necessary to exhibit the recited properties is missing from the instant claims and specification. For example, page 16, lines 5-13 of the instant specification disclose all of the inventive compositions can produce films having a proportion of defects less than 20% and do not set forth any particular limitations necessary to obtain such a result, a disclosure that must rely upon the composition necessarily exhibiting the same properties. The mere failure of a reference to disclose all the advantages asserted by applicant is not a substitute for actual difference in properties. *In re DeBlauwe*, 222 USPQ 191. An apparently old composition cannot be converted into an unobvious one simply by the discovery of a characteristic that one cannot glean from the cited prior art. *Titanium Metals Corporation v. Banner*, 227 USPQ 773.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M Brunsman whose telephone number is 571-272-1365. The examiner can normally be reached on M, W, F, Sa; 6:00-4:30.

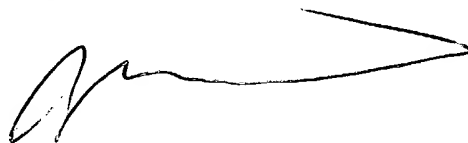
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M Brunsman  
Primary Examiner  
Art Unit 1755

DMB

A handwritten signature in black ink, appearing to be 'DMB', with a long horizontal line extending to the right.